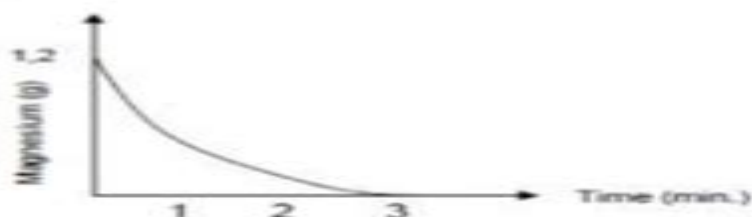


# Grade 11 Physical Science M...

records the change in the mass of magnesium as the reaction proceeds at regular intervals. The balanced chemical equation for the reaction is:



The change in the mass of magnesium during the reaction is shown on the graph below.



6.2.1 Identify the limiting agent in this reaction. Give a reason for the answer. (2)

6.2.2 Calculate the number of moles of unreacted hydrochloric acid in the test tube after 3 minutes. (7)

[19]

## Hide Answers

### QUESTION/VRAAG 6

6.1.1  $2\text{H}_2\text{O}_2(\text{aq}) \checkmark \rightarrow 2\text{H}_2\text{O}(\text{l}) + \text{O}_2(\text{g}) \checkmark$  (2)

6.1.2 The catalyst lowers the activation energy of the reaction ✓✓

Accept: catalyst speeds up the reaction

In Katalisator verlaag die aktiveringsenergie van die reaksie ✓✓

Aanvaar: katalisator laat die reaksie vinniger plaasvind

(2)

6.1.3 **OPTION 1/OPSIE 1**

$$n = \frac{V}{V_m} \checkmark$$

$$n = \frac{0,6}{24,45} \checkmark$$

$$n = 0,0245 \text{ mole/mol O}_2 \text{ produced/gevorm}$$

$$\text{H}_2\text{O}_2 : \text{O}_2 \checkmark$$

$$2 : 1 \checkmark$$

$$n = 0,049 \text{ mole/mol H}_2\text{O}_2 \text{ reacted/reageer}$$

$$n = \frac{m}{M} \checkmark$$

$$0,049 = \frac{m}{34} \checkmark$$

**OPTION 2/OPSIE 2**

From the balanced equation:

Vanaf gebalanseerde vergelyking:

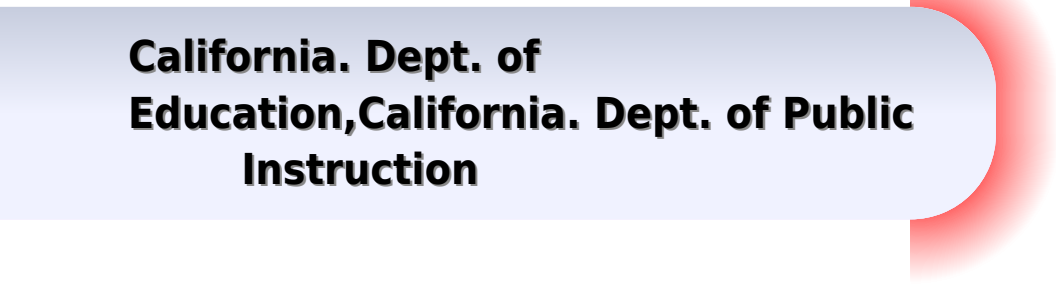


$$X = \frac{68 \times 0,6}{24,45} \checkmark$$

$$X = 1,67 \text{ g} \checkmark$$

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**Data Mining** De-Nian Yang, Xing Xie, Vincent S. Tseng, Jian Pei, Jen-Wei Huang, Jerry Chun-Wei Lin, 2024-04-24 The 6 volume set LNAI 14645-14650 constitutes the proceedings of the 28th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2024 which took place in Taipei, Taiwan during May 7-10, 2024 The 177 papers presented in these proceedings were carefully reviewed and selected from 720 submissions They deal with new ideas, original research results and practical development experiences from all KDD related areas including data mining, data warehousing, machine learning

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